

CLAIMS

What is claimed is:

1. A system for decoupling commercial-off-the-shelf software applications from data stores, the system comprising:

a plurality of commercial-off-the-shelf software applications each operable with one of a plurality of first data stores, each of the plurality of commercial-off-the-shelf software applications providing output compatible with one of the plurality of first data stores;

a plurality of second data stores; and

a translator in communication with the plurality of commercial-off-the-shelf software applications and the plurality of second data stores, the translator operable to translate the output from the at least one of the of commercial-off-the-shelf software applications for storage by one of the plurality of second data stores.

2. The system of Claim 1, further comprising a data access layer in communication with the translator and operable to determine where to direct the output from one of the commercial-off-the-shelf software applications to one of the plurality of second data stores.

3. The system of Claim 2, wherein the data access layer maintains an enterprise data model including a data map of where to direct the output of each of the commercial-off-the-shelf software applications.

4. The system of Claim 3, wherein the data access layer receives the translated output from the translator and directs the translated output to one of the plurality of second data stores.
5. The system of Claim 1, wherein a first commercial-off-the-shelf software application of the plurality of commercial-off-the-shelf software applications is operable to provide a first output in DB2 and wherein the translator is operable to translate the first output to Oracle.
6. The system of Claim 5, wherein a second commercial-off-the-shelf software application of the plurality of commercial-off-the-shelf software applications is operable to provide a second output in an older version of DB2 and wherein the translator is operable to translate the second output to a newer version of DB2.
7. The system of Claim 1, wherein a first commercial-off-the-shelf software application of the plurality of commercial-off-the-shelf software applications is operable to provide a first output in an older version of Oracle and wherein the translator is operable to translate the first output to a newer version of Oracle.
8. The system of Claim 1, wherein at least one of the second data stores is associated with one of the plurality of first data stores.
9. The system of Claim 8, wherein the at least one of the second data stores is further defined as a newer version data store of one of the plurality of first data stores.

10. The system of Claim 9, wherein at least one of the second data stores is further defined as a newer version of an Oracle database and wherein one of the plurality of first data stores is further defined as an older version of the Oracle database.

11. The system of Claim 9, wherein at least one of the second data stores is further defined as a newer version of a DB2 database and wherein one of the plurality of first data stores is further defined as an older version of the DB2 database.

12. The system of Claim 1, wherein the plurality of commercial-off-the-shelf software applications are each operable with only one of a plurality of data stores, each of the plurality of commercial-off-the-shelf software applications providing output compatible with only one of the plurality of data stores.

13. A system for maintaining compatibility of commercial-off-the-shelf software applications with data stores, the system comprising:

a commercial-off-the-shelf software application operable with only a first data store, the commercial-off-the-shelf software application providing an output compatible with only the first data store;

a listener operable to receive the output from the commercial-off-the-shelf software application;

a translator in communication with the listener to receive the output and operable to translate the output;

a data access layer in communication with the translator and operable to determine, based on an enterprise data model, where to direct the output of the commercial-off-the-shelf software applications;

a wrapper operable to receive the translated output from the data access layer and to wrap the translated output based on a storage format; and

a second data store based on the storage format and operable to receive and store the wrapped and translated output.

14. The system of Claim 13, wherein the second data store is a newer version data store of the first data store.

15. The system of Claim 13, wherein the second data store is a different vendor database than the first data store.

16. A system for integration of commercial-off-the-shelf software applications and databases, the system comprising:

a commercial-off-the-shelf software application operable with a first data store, the commercial-off-the-shelf software application providing an output compatible with the first data store;

a translator operable to receive the commercial-off-the-shelf software application output and to translate the output;

a second data store operable to receive and store the translated output;

a service broker operable to maintain a record of transaction output from the commercial-off-the-shelf software application and stored in the second data store, the service broker further operable to roll-back failed transactions.

17. The system of Claim 16, further comprising a data access layer in communication with the translator and operable to determine, based on an enterprise data model, where to direct the output of the commercial-off-the-shelf software applications.

18. The system of Claim 16, wherein the commercial-off-the-shelf software application is operable with only the first data store, and wherein the commercial-off-the-shelf software application provides the output compatible with only the first data store.

19. The system of Claim 16, wherein the service broker further comprises:
- a transaction data store operable to maintain a record of the output by the commercial-off-the-shelf software application;
 - an exception handler operable to identify a failed transaction and communicate with the transaction data store to restore the second data store to a state prior to the failed transaction.
20. The system of Claim 19, further comprising a data warehouse and wherein the data warehouse is asynchronously updated with the output from the commercial-off-the-shelf software application.
21. The system of Claim 19, wherein a compensating transaction is used to restore the failed transaction.
22. The system of Claim 21, wherein an XA transaction is used in combination with the compensating transaction to restore the failed transaction.

23. The system of Claim 19, further comprising:
- a data warehouse operable to maintain data;
 - a query processor to manage transaction processing of data requests from the commercial-off-the-shelf software application; and
 - a metadata repository maintaining a logical data model related to the data, the metadata repository instructs the query processor regarding handling of the data requests from the commercial-off-the-shelf software application and between the second data store and the data warehouse.